



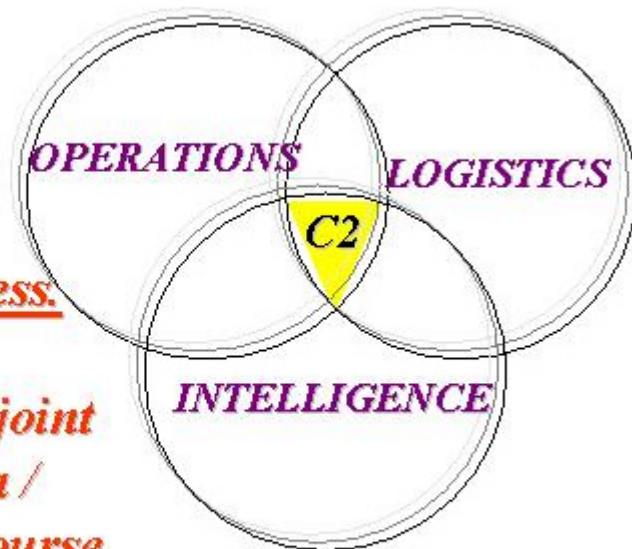
Joint Theater Logistics Management



Mr. Jay Erb, Office of the Director for Logistics, The Joint Staff

JTLM: WHAT ARE WE AFTER

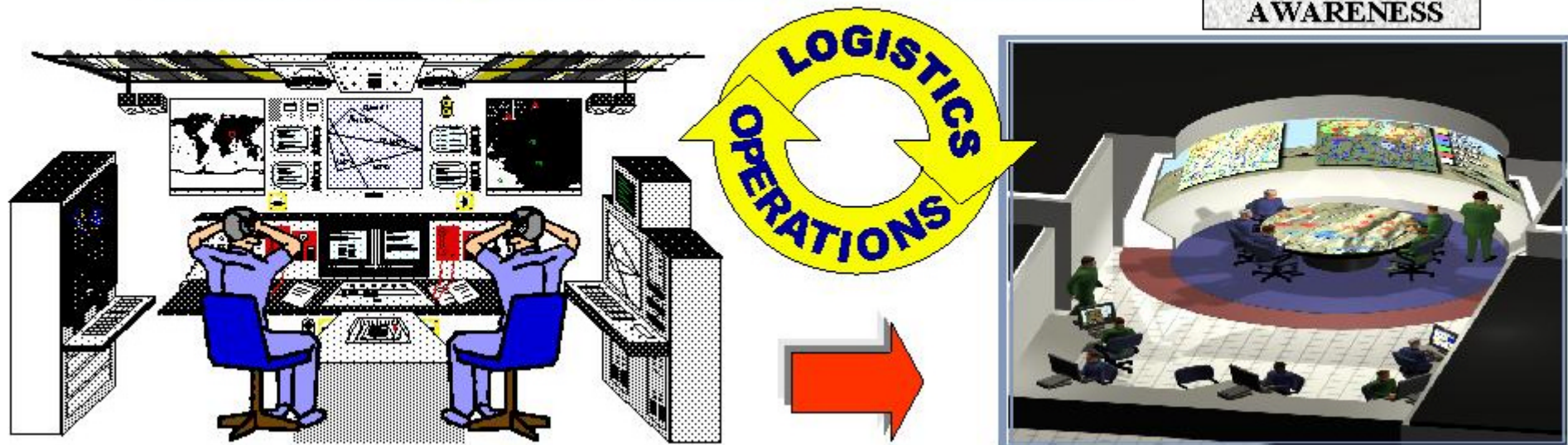
Make the logistician a relevant player in a highly volatile operational environment to enhance and accelerate the joint warfighter's decision making process.



HOW? By providing the CINC and JTF staffs real-time joint asset visibility and the capability to transform this data / information into meaningful information to be used in course of action development, analysis and collaborative planning.

To achieve this we need: data from the authoritative source & joint decision support tools

OUR GOAL:
INTEGRATED,
REAL-TIME
SITUATIONAL
AWARENESS



Joint Theater Logistics Management

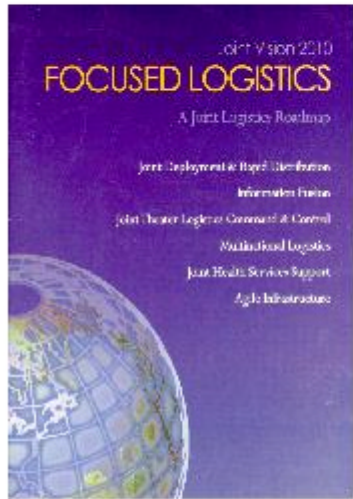
“The management process which provides the CINC the ability to synchronize, prioritize, direct, integrate, and coordinate common-user and cross-Service logistics functions necessary to accomplish the joint theater mission. By optimizing resources, it facilitates support to the warfighter while achieving economies and reducing the logistics footprint.”

Requires ...

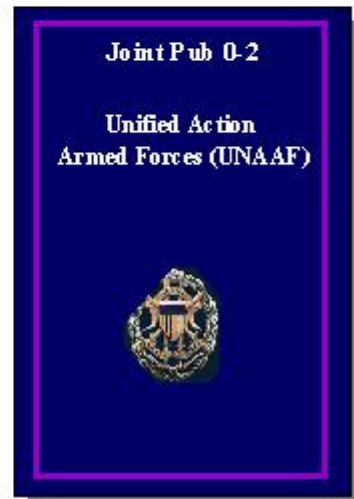
- ✓ **Authority**
- ✓ **Functional Responsibilities
(requirements)**
- ✓ **Capabilities...systems and tools**
- **Organization**

Authority: Key JTLM Guidance

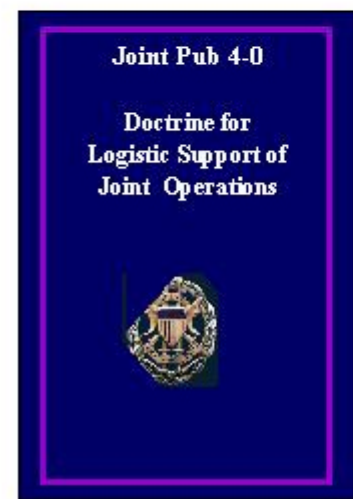
Title 10, US Code and...



Prioritize
Synchronize
Direct
Coordinate
Integrate



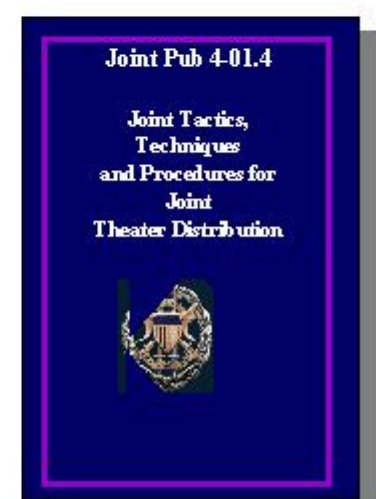
Combatant
Command (COCOM)
over assigned
forces, includes
Directive Authority
for Logistics (DAFL)



Ensure, maintain,
and enhance
effectiveness

Increase efficiency
Optimize resource
utilization

Reduce the logistics
footprint in-theater

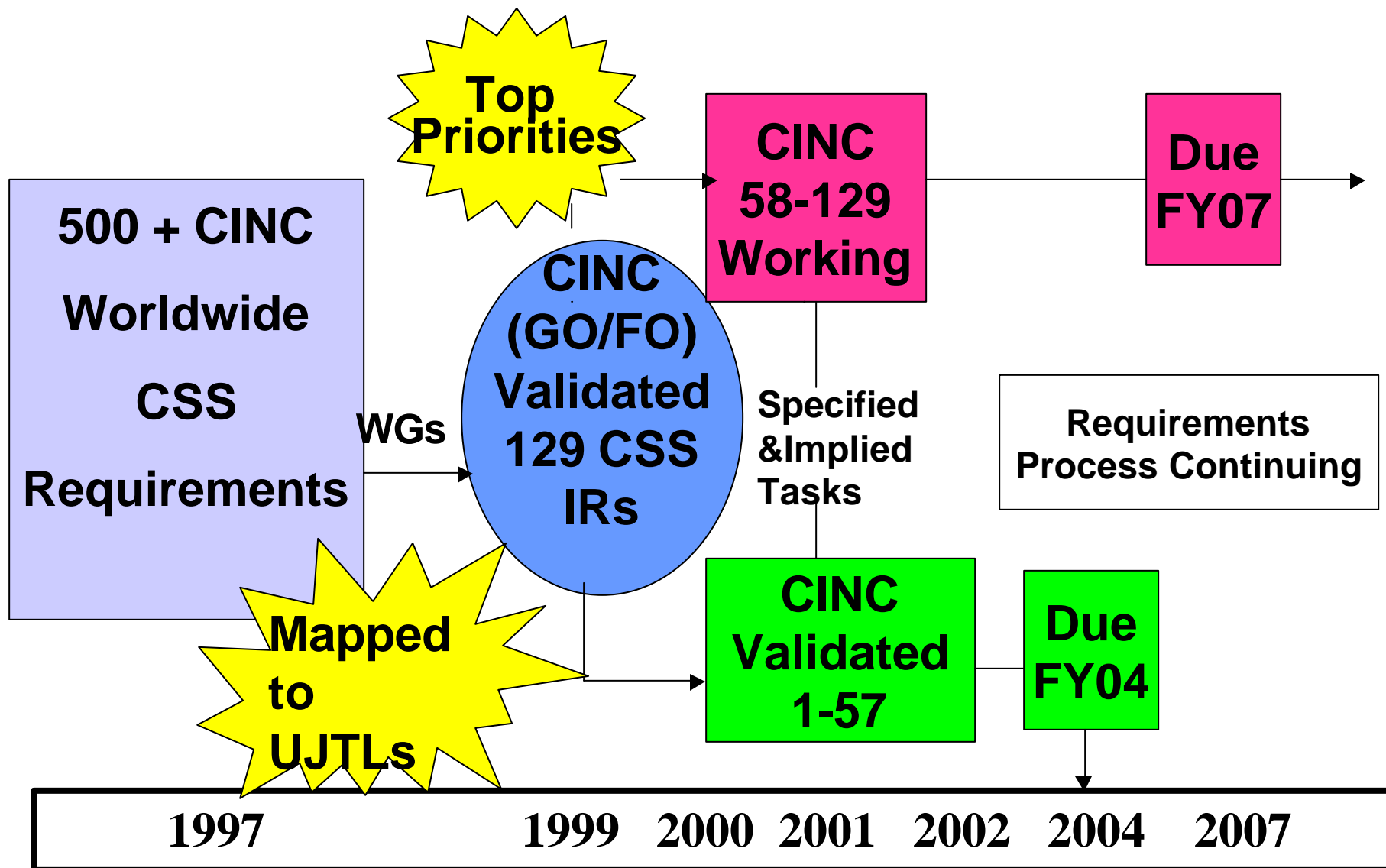


Visibility

Capacity

Control

CINC CSS Information **Requirements** (IR) Process





Top 57 CINC CSS Informational Requirements

- *First 57 CINC requirements contain a total of 266 specified or implied tasks*
- *Tasks span the spectrum of logistics, C2, and intelligence*
 - *C2 and intelligence info requirements referred to GCCS*
- *Tasks demand two overarching capabilities:*
 - *Asset Visibility -- access to accurate, real-time data*
 - *Joint Decision Support Tools -- transform data into actionable information*
- *The majority of the tasks require input from multiple sources to answer the requirement -- no single solution*
- *There are “common threads” of information requirements throughout that serve as a means from which to begin*



A “typical” requirement

REQUIREMENT	SPECIFIED/IMPLIED ESSENTIAL ELEMENTS OF INFORMATION	JDST	CINC JTF Component Access	Auth FoS	Sources	Data Elem ent
Requirement # 8: Provide timely and accurate informatio n on the location and contents of prepositio ned stocks and supplies.	<p>Warfighter wants visibility, readiness status and availability of war reserve material within their area of operation or within another area of operations that is available for potential use. In addition, the ability to drill down and obtain an overall description of capabilities and contents is essential for the CINC logistician.</p> <ul style="list-style-type: none"> Identify the location, composition and readiness of all prepositioned war reserve material belong to the Army, Air Force, Navy, USMC and Defense Logistics positioned ashore and afloat and consisting of swing and starter stocks (including bare base support assets and Army’s operational projects and sustainment stocks). Graphically portray the exact location, capability, readiness levels, Service proponent, apportionment and actual availability (when will it be available for issue or draw) of all prepositioned war reserve assets within a theater of operation. Track and display all prepositioned war reserve material in-transit outlining final destination, arrival times, and controlling organization. Graphically portray the readiness levels of prepositioned assets within a theater of operation indicating major shortfalls or substandard readiness levels and be able to drill down to obtain specific line item shortages, if required. Track and monitor the movement of all afloat prepositioned war reserve materials and display the owning organization / agency (Service and CINC). Provide a logistics estimate, based on throughput capacity at each node of the distribution system (air, sea, rail and ground) as to the most feasible options (based on cost and time factors) for the movement of prepositioned stocks and supplies from their current location to the final destination within a theater of operation. 	JT/JTL ACTD	→	GCSS SVCs DLA BSM TMIP	GSORTS- SVCs JMAR	
		JL/JTL ACTD	→	GTN GCSS SVCs	GDSS	
				GTN	GDSS	
		JL/JTL ACTD	→	GCSS SVCs DLA/BSM	GSORTS- SVCs	
		JL/JTL ACTD	→	GTN	GDSS	
		JFAST/ ELIST	→			



Common Threads

Visibility

- *Assets in Transit*
- *Fixed Infrastructure Capabilities (Static)*
- *Assets in Storage / Process*
- *Unit Static Information (doctrinal capabilities)*
- *Location of Units*
- *Availability of Units and major end items (class VII)*
- *Readiness Reporting Information*
- *Assets in War Reserves / Prepositioned Stocks*
- *Commercial / Vendor Support*
- *Assets / Capabilities of Host Nation Support*
- *Visibility of Personnel (specialty skills, patient tracking)*
- *Dynamic Infrastructure (weather, threat, etc)*
- *Other (outside the logistics community)*
- *Consumption / Planning Factors (Static)*

Visibility of 14
different
categories

Joint Decision Support Tools

- *Projections*
- *Course of Action Development / Analysis*
- *Logistics Estimate Planning*



*135 of 266 tasks
requires some form
of JDST*

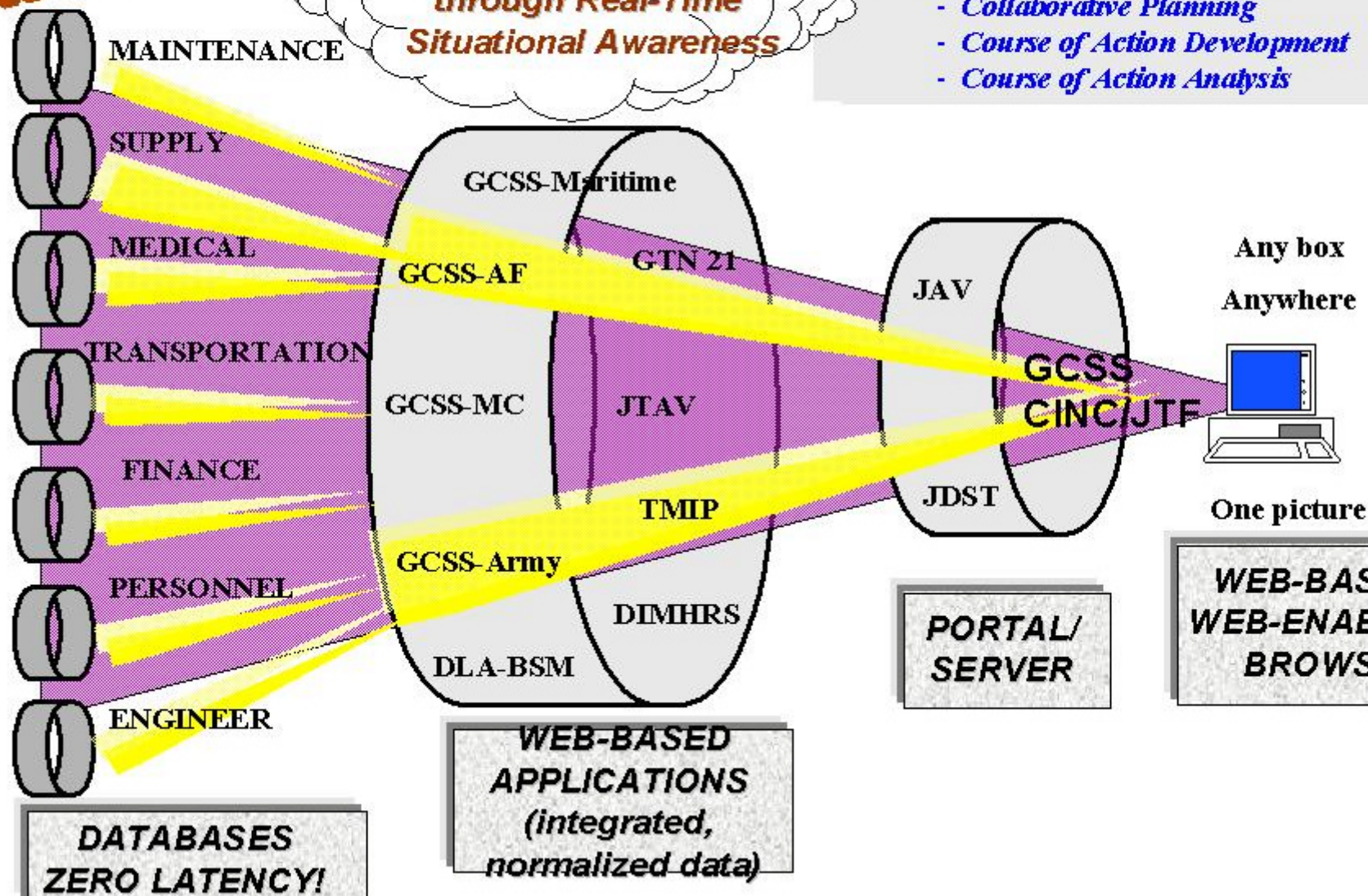


Other half of Requirement: KPPs

- **Compliance:** with the DII COE level 6 / level 8
- **Security:** NIPRNET and SIPRNET IAW DoD 5200.28 STD
- **Interoperability:** Integrate corporate logistics data into a common operational logistics picture providing real-time logistics situational awareness
 - **Relevancy / Currency:** data accuracy and data age
95%/ 100% accurate from Authoritative Source
 - **Responsiveness:** in providing timely responses to queries
Asset Visibility-less than 60/30 seconds 95% of the time
JDST- less than 120/30 seconds 95% of the time
 - **Availability:** accessibility and connectivity to data
95% / 99% down to the JTF Headquarters level

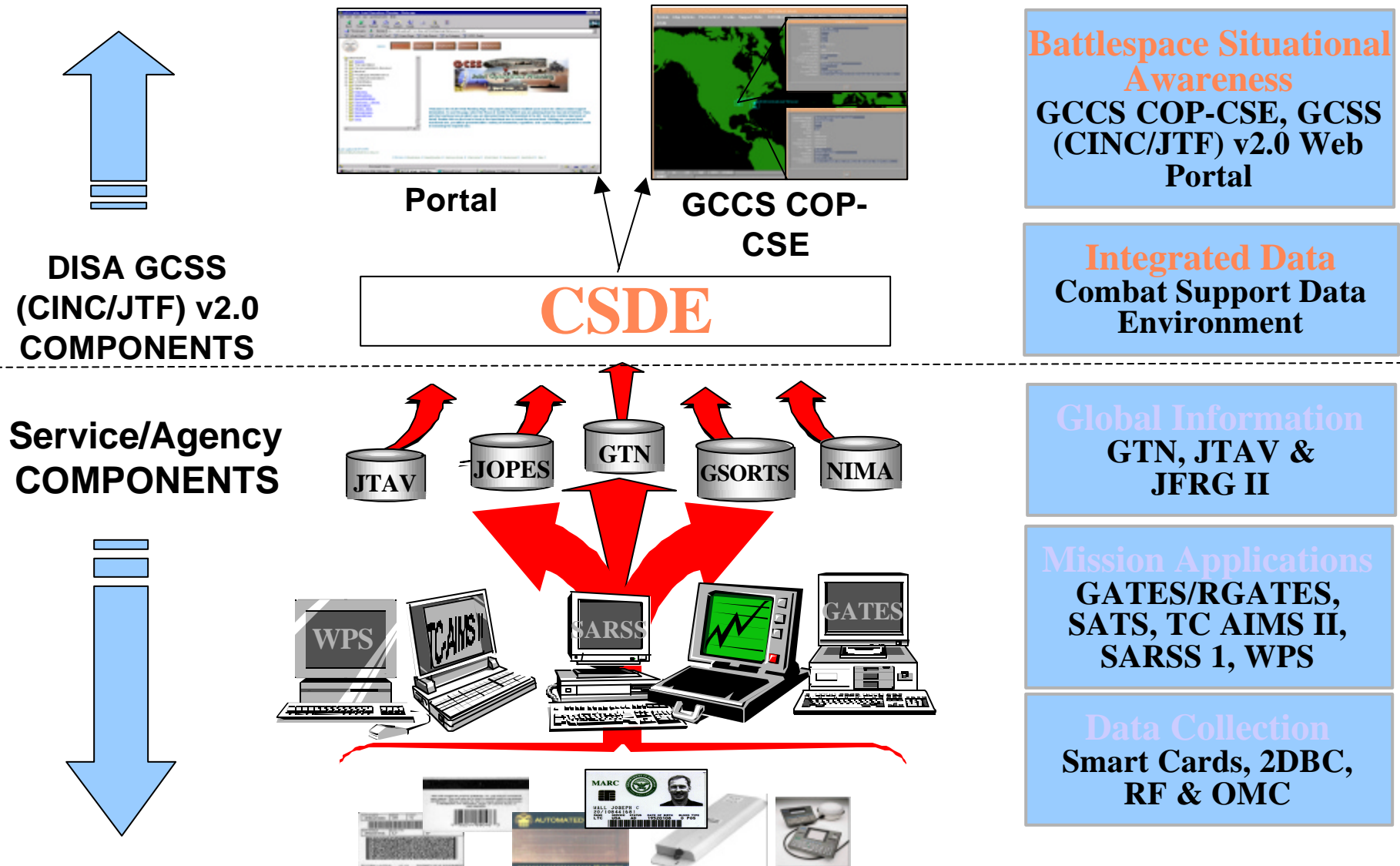
Where Are We Heading

**Logistics Transformation
through Real-Time
Situational Awareness**



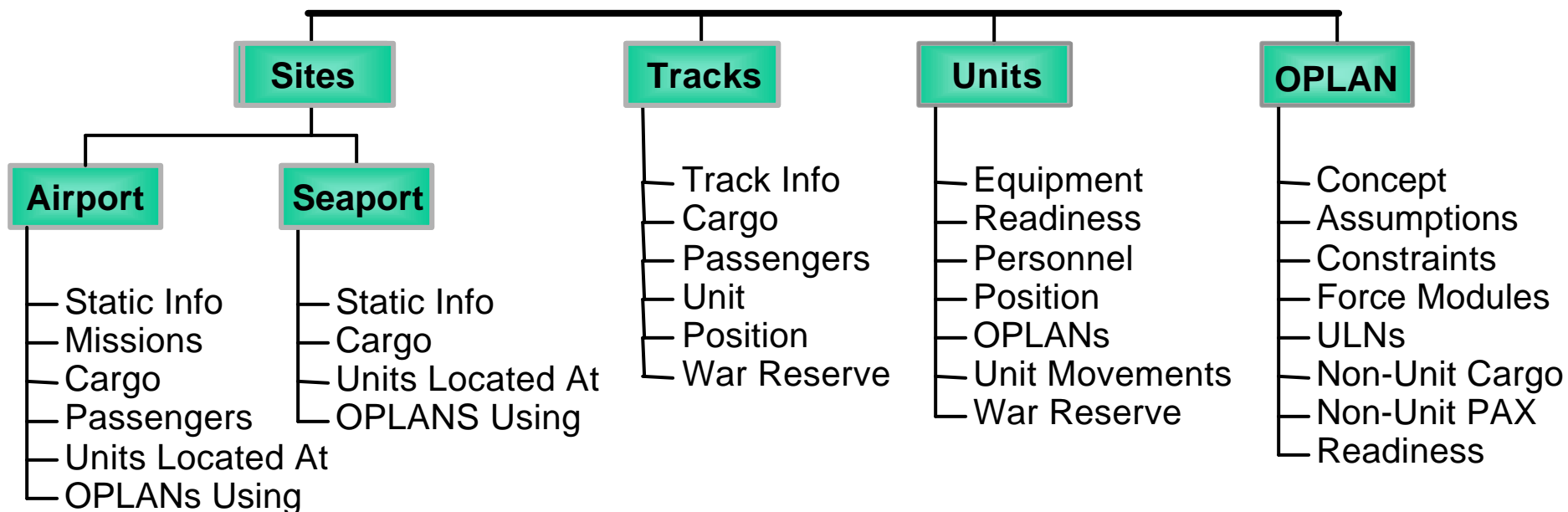
- **Joint Asset Visibility**
 - *Mobility, Transportation, Movement*
 - *Logistics (Supply, Maintenance, Engineer)*
 - *Personnel and Health*
 - *Acquisition and Finance*
- **Joint Decision Support Tools**
 - *Collaborative Planning*
 - *Course of Action Development*
 - *Course of Action Analysis*

GCSS (CINC/JTF) Components (GCCS Mission Applications)





Drill - Down Alternatives



Combat Support information to the Commander

- Enhanced situational awareness
- Informed decision making

UNCLASSIFIED

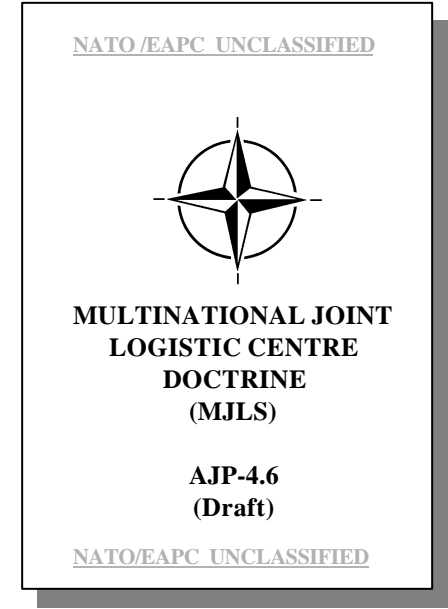
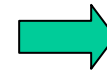
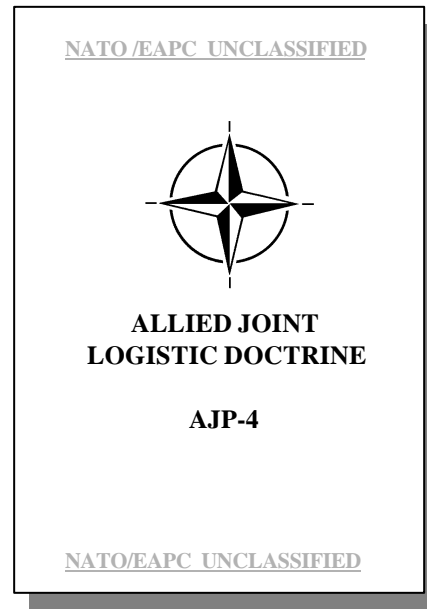
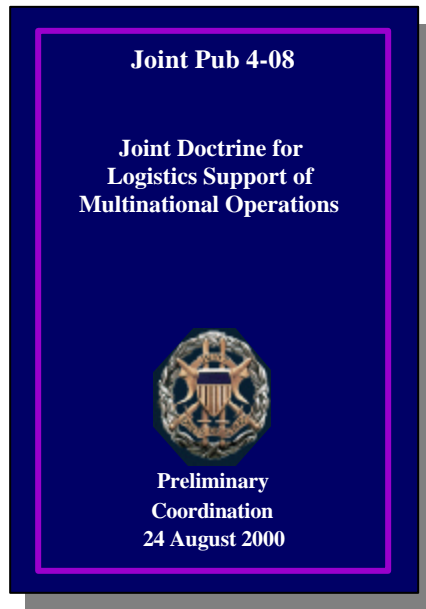
Focused Logistics Wargame 2001

JTLM Issues



- Need to identify functions that should be managed jointly (e.g. intra-theater movement, contracting, host and other nation support).
- Executive Agent versus CINC identified Lead Service
- Interoperable data and supporting comms requirements
- **Organizational structure issues**
- Incorporating coalition capabilities
- End-to-end visibility and management

Key Multinational Guidance



CAPSTONE JOINT MN DOCTRINE

- *Fundamentals*
- *Command and Organization*
- *Support Arrangements*
- *Planning*
- *Supports overall MN C2 Structure (JP 3-16, Joint Doctrine for Multinational Operations)*

CAPSTONE NATO Log DOCTRINE

- *MJLC Concept Overview*
 - *Policy*
 - *Organizational Options*
 - *Key Functional Elements*
- *NATO (I.e. US) Approved Doctrine*

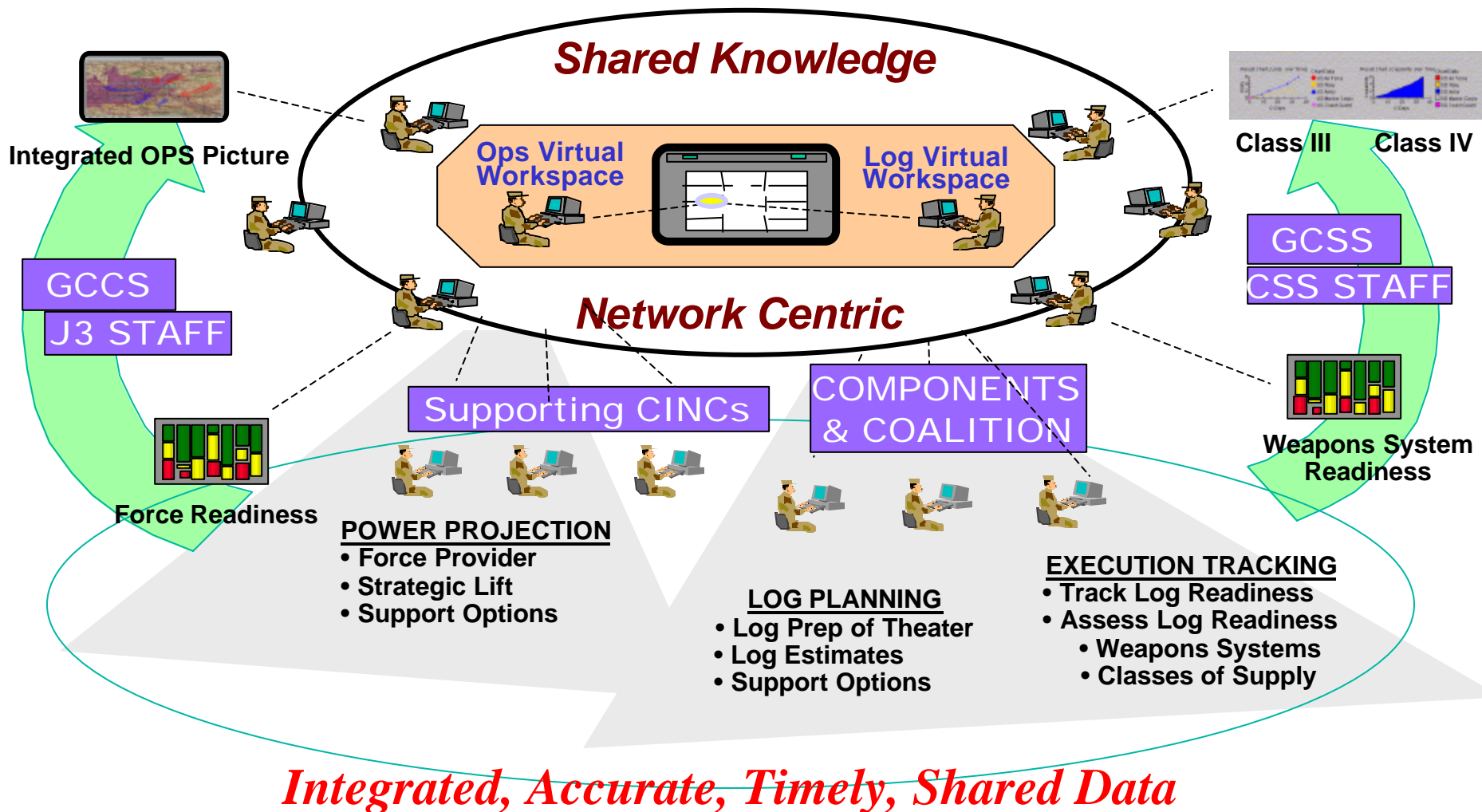
MJLC NATO DOCTRINE

- *Functional Cells*
- *Organization Structure*
- *Employment Variations*
- *Manning and Resources*

“All Multinational Ops are not the same”

Logistics Collaboration as a Force Multiplier

Provide the Warfighter with real time operations & logistics collaborative capability to support planning and execution



QUESTIONS?



Back-up Slides

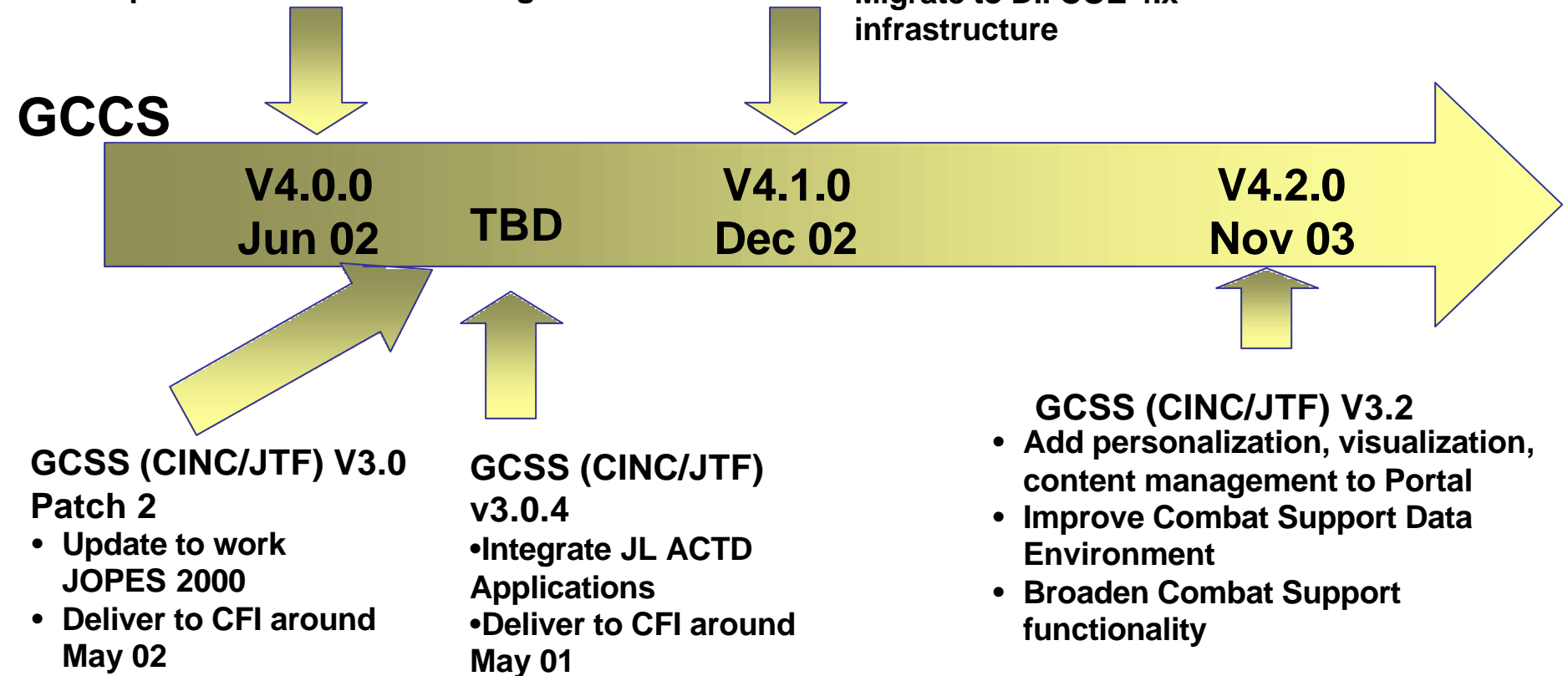
Where We Are Headed - The Future GCSS (CINC/JTF) Phase 3 Plan

GCSS (CINC/JTF) V3.0 with Patch 1

- Additional Transportation, Fuel, Ammo, Personnel data
- COP - Transportation Support Enhanced (COP-TSE)
- Web-based Mapping Tool
- System Security Improvement
- Infrastructure Improvements
- Updates for JOPES 2000 migration

GCSS (CINC/JTF) V3.1

- Migrate to DII COE 4.x infrastructure



“Power Point” to execution is difficult !!!

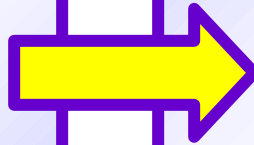


“Long Poles in the tent...”

- Data interoperability and data integration
- Service comms backbone, especially for non-early deploying forces
- Real time, end-to-end linkages
- Data currency based on business practices
- Interface with Host Nation visibility
- Interoperability with GCCS for ops/intel
- Inter-agency/coalition interoperability
- Training the CINC/JTF staffs
- DoD IT Acquisition Process

Joint Vision 2020 Postulate

- If we can:
 - achieve common support standards,
 - develop a process to make in-theater allocation and distribution decisions,
 - develop an efficient tasking mechanism,
 - and improve information and command and control systems —



- then we can:
 - consolidate like functions to achieve economies of scale,
 - synchronize and standardize common support among components,
 - properly allocate and prioritize the distribution of limited logistics resources,
 - efficiently task common-user assets,
 - and reduce the in-theater logistics footprint.

One of Six Focused Logistics Twenty-First Century Challenges

UNAAF (Joint Pub 0-2)

- **Authority to execute JTLM**
 - **Directive Authority for Logistics (DAFL)... inherent in COCOM**
- **Issues**
 - **COCOM over assigned forces, not attached**
 - **Delegation of DAFL, common support capability**
 - **Drawing the line ... Service Title X responsibilities**
 - **Peacetime limitations vs.. crisis action or wartime conditions**

“Commanders of combatant commands may exercise directive authority for logistics ... to ensure effective operation plans; effectiveness and economy of operation; and prevention or elimination of unnecessary duplication of facilities and overlapping of functions among the Service component commands.”

Joint Logistics (Joint Pub 4-0)

What it doesn't do ...

- Establish a requirement for JTLM ... general guidance, not directive
 - *“JTLM is one way to help achieve a unified focus ...”*
 - *“The CINC may, as an option, establish a JTLM element ...”*
- Clearly define JTLM or its functions
 - *“... to fuse movement control and material management ...”*
 - *“... contract clearing house ...”*

What it does do ...

- Provides maximum flexibility for CINC implementation
- Provides a range of organizational options
 - *Service organization, augment J-4, delegate to JTF, stand alone log agency, predominant Service, expand LRC*
- Recognizes the link to information fusion ... key enablers

METT-T driven ... but not ad hoc!

Theater Distribution (Joint Pub 4-01.4)

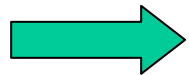
Distribution is the operational process of synchronizing all elements of the logistics system to deliver the “right things” to the “right place” at the “right time”.

- **Three tenets of theater distribution**
 - **Visibility ... In-process, supply, in-transit, in-theater**
 - **Capacity ... Infrastructure dependent**
 - **Control ... Distribution manager**
- **Fundamental Principles**
 - Centralized management (CINC J-4)
 - Optimize the distribution system
 - Velocity over mass
 - Maximize throughput
 - Reduce Customer Wait Time
 - Maintain minimum essential stocks
 - Maintain continuous, seamless flow
 - Achieve time-definite delivery

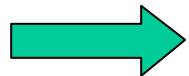
Theater Distribution is dependent upon JTLM principles

JP 4-08 ... Background

- Contentious Publication from beginning
- First Draft savaged ... total rewrite required
- Second Draft ... Post Kosovo
- Preliminary Coordination ... still issues



- Conversion to Test Publication as of 15 April 01
- Scheduled approval date - July 02



- FLOW '01 ... Pillars Assess/Explore Concepts

How do JTLM Concepts work in a MN Environment?